TECHNICAL DATASHEET

POLYPROPYLENE TIPPLEN H 649 FH

Homopolymer for BOPP film

DESCRIPTION

TIPPLEN H 649 FH is a homopolymer polypropylene for the production of biaxially oriented films. The grade contains reinforced processing stabilisation but does not contain any slip or antiblocking agents.

APPLICATIONS

TIPPLEN H 649 FH is Ca-stearate free and it is particularly suitable for metallization both in monolayer and in coextruded structures. Films produced from this grade have good mechanical properties, high impact strength and puncture resistance even at low temperatures. The BOPP film forms an excellent barrier against moisture, oils and oxidation and features good optical properties. The main application of monolayer or coextruded films is the packaging industry.

TIPPLEN H 649 FH is not intended for use in medical & pharmaceutical applications.

PRODUCT COMPLIANCE

See DDS.

PROPERTIES*

Parameter	Note	Test method	Unit	Typical value
MFR - Melt Mass-Flow Rate (230°C, 2.16 kg)	-	ISO 1133-1	g/10 min	2.5
Tensile Stress at Yield	2	ISO 527-1,2	MPa	36
Tensile Strain at Yield	2	ISO 527-1,2	%	10
Flexural Modulus	2	ISO 178	MPa	1700
Izod Impact Strength (notched, 23°C)	2	ISO 180/A	kJ/m²	7
HDT (0.45 MPa, flatwise)	2	ISO 75-1,2	°C	104
Recommended Film Thickness	-	-	mm	0.01 - 0.04
Recommended Processing Temperature	-	-	°C	190 - 240

*Typical properties, not to be used as specification.

(2) Typical properties measured on standard injection moulded test specimen according to ISO 294-1.

PROCESSING

TIPPLEN H 649 FH can be used in conventional and high speed BOPP film machines.

MOLGROUP CHEMICALS

Manufacturer website: https://mol.hu/en/

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STORAGE AND HANDLING

Pellets are packed in 25 kg polyethylene bags and transported on shrink-wrapped or stretch-wrapped pallets at eligible load of polymer 1375 kg. We use adhesive between the bags in order to avoid their slipping. Pay attention to this fact during the removing of the bags from the pallets. The preferred method is to lift the bag at first without rotation. Heat treated pallets are provided by PRS, a member of the Faber Halbertma Group, operating a pooling system which collects the pallets after use, and organizes reuse as part of a sustainable, circular system. PRS pallets remain property of PRS at all times. Transportation in road silo or rail silo is also available. For more detailed information please contact a sales representative at SLOVNAFT or at MOL Petrochemicals.
Since polypropylene is a combustible substance, the fire safety rules applicable for combustible materials in warehouses and store rooms should be observed.
If polymer is stored in conditions of high humidity and fluctuating temperatures, then atmospheric moisture can condense inside the packing. If it happened, it is recommended the pellets to be dried before use. During the storage polypropylene should not be exposed to UV radiation and temperatures above 40°C. Producer does not take responsibility for any damages caused by adverse storage.

REACH STATEMENT

Polymers are exempt of REACH registration. However, their raw materials which mean monomers and relevant additives have been registered. MOL Petrochemicals is committed to fully respect legislation and will only use REACH compliant raw materials. At this point in time PP TIPPLEN does not contain any substances specifically identified as SVHC at levels greater than 0.1%.

RECYCLING

Polypropylene resins are suitable for recycling using modern recycling methods. In-house production waste should be kept clean to facilitate direct recycling.

SAFETY

See MSDS.

TECHNICAL DATASHEET

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